## Office Memorandum • United States Government

The Files - Contract (RD)XG-2235, W. O. 2  DATE: 14 July 1960	
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Trip Report,	25 <b>25X</b>
1. On 8 July 1960 the writer visited, Alexandria, Virginia to monitor the progress of W. O. 2 of Contract (RD)XG-2235. Present at the meeting were the following:	25
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presented a progress report in outline form which had five main topics as follows:	25
a. A statement of the problem	
b. A literature search	
c. Antenna testing and analysis	
d. Pattern evaluation	
e. Future work	
The literature search resulted in the selection of a dipole array or flat top antenna as being the logical test antenna for the feasibility studies. The particular antenna used to make impedance, open-circuit voltage, and vertically polarized rejection measurements was a three	
of a wavelength. A single element dipole and a ten foot whip were also used for comparison purposes.	25)
3. Impedance measurements for heights above the ground varying from six inches to four feet, oddly enough,  (416 + j81.5 ohms at	25X 25X
4 feet to 815 + j454 ohms at six inches) The impedance of the single element dipole mounted sixteen feet above ground was 79.5 - j31.7 ohms. The whip measured 36.8 - j122 ohms.	
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SUBJECT: Trip	Report,		
a very near opt ground. Vertic driven loop at circuit voltage	strength patterns on timum angle of departs cal component rejection a distance of es at the terminals of the driven loop. The stoone.	ure for various heig on ratios were obtain and f the array for bros	ghts above ined by using a d comparing open adside and axial
5. A two	week extension has be	een approved for con	mpletion of the
project report (RD)XG-2235. F	which represents the Further consideration	final work on W. O. of the ground wave	. 2 Contract suppression
technique is pe	ending receipt and eve	aluation of the repo	ort.
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